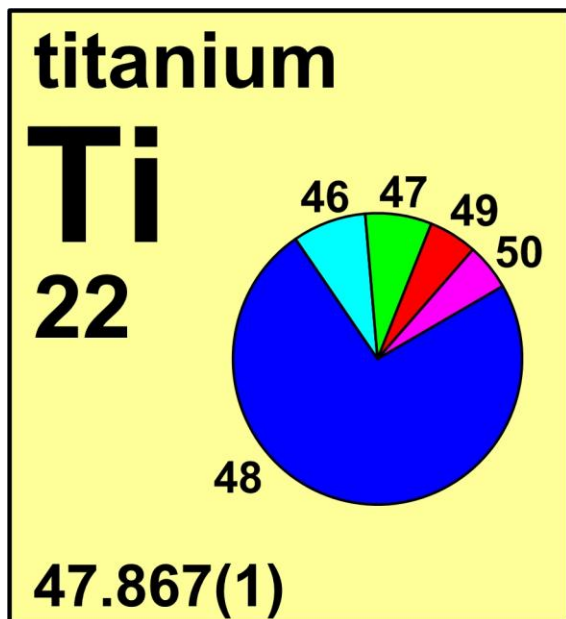


titanium

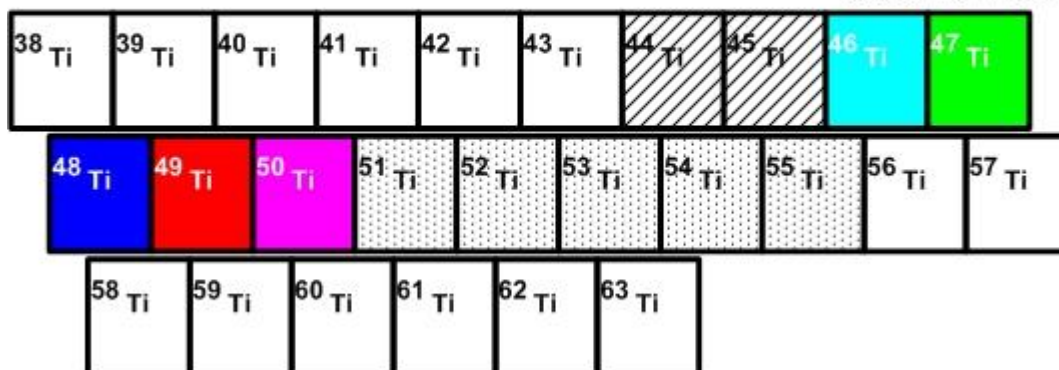


Stable isotope	Atomic mass*	Mole fraction
⁴⁶ Ti	45.952 6316	0.0825
⁴⁷ Ti	46.951 7631	0.0744
⁴⁸ Ti	47.947 9463	0.7372
⁴⁹ Ti	48.947 87	0.0541
⁵⁰ Ti	49.944 7912	0.0518

* Atomic mass given in unified atomic mass units, u.

Half-life of radioactive isotope

Less than 1 second
Between 1 second and 1 hour
Greater than 1 hour



Important applications of stable and/or radioactive isotopes

Isotopes in the environment

- 1) ⁵⁰Ti/⁴⁶Ti measurements are used to study early days of the solar system. The ratio implies whether or not the system was created from a well-homogenized source.

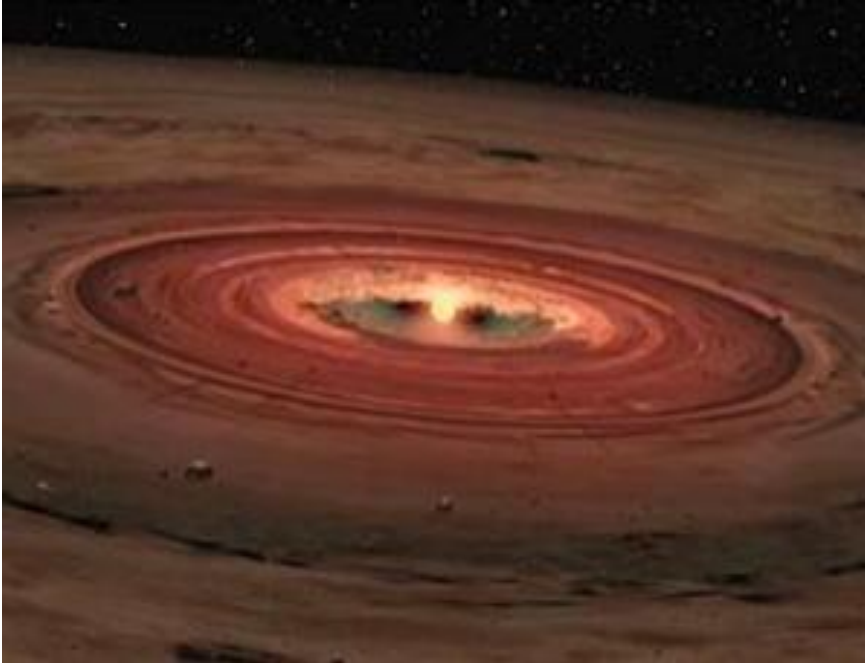


Figure 1: Illustration of the solar system.